PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

REC'D I 1 AUD ROAD

(PCT Article 36 and Rule 70)

WIPO POT

Applicant's or agent's file reference 63253A	FOR FURTHER ACTION	See Form PCT/IPEA/416		
PCT/US2004/024949	nternational filing date (day/month/year) 30.07.2004	Priority date (day/month/year) 29.08.2003		
International Patent Classification (IPC) or nation CO8F10/00	nal classification and IPC			
Applicant DOW GLOBAL TECHNOLOGIES INC. et al.				
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 				
2. This REPORT consists of a total of 4	2. This REPORT consists of a total of 4 sheets, including this cover sheet.			
3. This report is also accompanied by ANNEXES, comprising:				
a. Sent to the applicant and to th	a. sent to the applicant and to the International Bureau) a total of sheets, as follows:			
sheets of the description, and/or sheets containing r Administrative Instructions	claims and/or drawings which have been ar ectifications authorized by this Authority (se s).	mended and are the basis of this report se Rule 70.16 and Section 607 of the		
□ sheets which supersede e beyond the disclosure in t Supplemental Box.	earlier sheets, but which this Authority consl he international application as filed, as indic	ders contain an amendment that goes cated in item 4 of Box No. I and the		
sequence isling and/or lables	au only) a total of (indicate type and numbe related thereto, in computer readable form ing (see Section 802 of the Administrative I	only on Indicated in the Oversion of		
4. This report contains indications relating	ig to the following items:			
Box No. I Basis of the opinion				
Box No. II Priority				
☐ Box No. III Non-establishment o	of opinion with regard to novelty, inventive s	step and industrial applicability		
☐ Box No. IV Lack of unity of inve	ntion	-		
applicability; citation	t under Article 35(2) with regard to novelty, s and explanations supporting such statem	inventive step or industrial ent		
Box No. VI Certain documents of				
	e international application			
☐ Box No. VIII Certain observations	on the international application			
Date of submission of the demand	Date of completion of this	report		
24.05.2005	10.08.2005			
Name and mailing address of the international preliminary examining authority:	Authorized Officer	nua Pillan		
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 ep Fax: +49 89 2399 - 4465	mu d Balmer, J-P Telephone No. +49 89 23			
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/024949

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_	Box No. I	Basis of the report	
1	. With regard to the language, this report is based on the international application in the language in which i filed, unless otherwise indicated under this item.		
	□ inte	eport is based on translations from the original language into the following language, is the language of a translation furnished for the purposes of: ernational search (under Rules 12.3 and 23.1(b)) plication of the international application (under Rule 12.4) ernational preliminary examination (under Rules 55.2 and/or 55.3)	
2	. With regard have been	to the elements* of the international application, this report is based on <i>(replacement sheets which furnished to the receiving Office in response to an invitation under Article 14 are referred to in this originally filed" and are not annexed to this report):</i>	
Description, Pages			
	1-16	as originally filed	
	Claims, Nun	nbers	
	1-7	as originally filed	
	□ a seque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing	
3.	☐ the d☐ the d☐ the d☐ the d☐	lendments have resulted in the cancellation of: description, pages claims, Nos. drawings, sheets/figs dequence listing (specify): table(s) related to sequence listing (specify):	
4.	Supplements the d the c the d the d	fort has been established as if (some of) the amendments annexed to this report and listed below an made, since they have been considered to go beyond the disclosure as filed, as indicated in the description, pages laims, Nos. rawings, sheets/figs equence listing (specify):	
		n 4 applies, some or all of these sheets may be marked "superseded "	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US2004/024949

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-7

Inventive step (IS)

Yes: Claims

No: Claims 1

1-7

Industrial applicability (IA)

Yes: Claims

1-7

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

Re Item V.

1. The following documents are referred to in this communication:

D1: EP-A-0 461 775
D2: US-A-5 118 768
D3: US-A-5 270 410
D4: WO-A-94/06833
D5: US-B-6 399 837
D6: US-A-4 673 661
D7: EP-A-0 398 439
D8: US-A-5 362 416

- 2. The documents D1-D5 disclose the preparation of Ziegler-Natta procatalysts in oil suspension wherein the procatalyst has been prepared according the presently claimed process. In particular in the examples disclosed in these prior art documents, the drying is effected according conditions which are "milder" than the comparative example recited in the present invention (with similar or same diluent to be evaporated). The remaining diluent is not precisely determined in these prior art documents, but according to the diluent type and the drying conditions it is believed that the remaining diluent falls between the presently claimed range from 7 to 25 percent. Accordingly D1-D5 are considered as novelty destroying for the present claimed subject matter with regard to Article 33(2) PCT.
- 3. The document D6 discloses in examples Q-V the preparation of the same Ziegler -Natta procatalyst wherein the drying of the diluent (i.e. heptane with a boiling point of 98°C) is effected at room temperature under nitrogen circulation during one hour. The dried procatalyst of D6 is not suspended in oil, but this step is considered as customary practice mainly depending of the polymerization process used and the way the procatalyst is used and stored.

 Therefore D6 is also considered to be novelty destroying or at least is relevant to assess non-inventiveness for the present invention with regard to Article 33(2+3) PCT.